

Technical Data Sheet

THICK FILM MATERIALS

Product Type: End Terminations

Product Name: ET1813



Pb Free Solderable End Termination

Description

ET1813 is a Pb and Cd free solderable Ag/Pt end termination designed for use on NPO and X7R MLCC (multilayer ceramic chip capacitors). It offers excellent solderability and adhesion.

ET1813 is supplied at a viscosity suitable for machine dip and blot or no blot applications

Key Benefits

- Suitable rheology for machine dip application
- Excellent solderability and adhesion
- Compatible on NPO and X7R dielectrics
- REACH¹ and ROHS² compliant

Typical Properties

Viscosity:

30 – 40 Kcps Brookfield RVT
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids:

78.0 ± 1.0 %

FOG:

≤ 10 µm at 4th scratch

Solderability:

Sn62/Pb36/Ag2 at 220 °C
10 second dip, RMA flux
> 95 % coverage

Leach Resistance:

Sn62/Pb36/Ag2 at 230 °C
10 second dip, RMA flux
10 % loss

Recommended Processing Guidelines

Drying:

150 °C for 10 minutes

Firing:

780 – 810 °C at peak temperature
Dwell time of 5 – 6 minutes at peak

Thinner:

RV-372

Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

Storage:

Store in a dry location at 5 – 25 °C.

DO NOT REFRIGERATE.

Allow paste to come to room temperature prior to opening.
Spatulate well before using, as settling may occur during storage.

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Legend:

1) REACH compliant according to the latest * Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest * Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

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